



Atty Docket No. 080398.P433

Patent

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:	) Examiner: Bengzon, Greg C.
	)
Tabatabai, et al.	) Art Unit: 2144
	)
Application No. 10/038,142	) Confirmation No.: 7456
	)
Filed: October 22, 2001	)
	)
For:	)
DELIVERY OF MULTIMEDIA	)
DESCRIPTORS USING	)
ACCESS UNITS	)
	)

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**EXHIBIT A**

1. Table of Contents for the Proceeding of the ACM Multimedia 2000 Workshops,  
October 30 - November 3, 2000, Los Angeles, CA USA, ACM 2000,  
<http://portal.acm.org/toc.cfm?id=357744>


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)
[Search:](#) [The ACM Digital Library](#) [The Guide](#)

**THE ACM DIGITAL LIBRARY**

[Feedback](#) [Report a](#)
[problem](#) [Satisfaction survey](#)
[International Multimedia Conference archive](#)
**Proceedings of the 2000 ACM workshops on Multimedia**

 2000, Los Angeles, California, United States *October 30 - November 03, 2000*

 Additional Information: [full citation](#), [index terms](#)

Chairmen	<a href="#">Shahram</a>	Univ. of Southern
	<a href="#">Ghandeharizadeh</a>	California
	<a href="#">Shih-Fu Chang</a>	Columbia Univ., New
		York, NY
	<a href="#">Stephen Fischer</a>	GMD-IPSI, Germany
	<a href="#">Joseph Konstan</a>	Univ. of Minnesota
		Univ. of Illinois,
	<a href="#">Klara Nahrstedt</a>	Urbana-Champaign

## Table of Contents

### Web-based intuitive and effective design of symmetric tiles

Ergun Akleman, Jianer Chen, Burak Meric

Pages: 1 - 4

 Full text available: [Pdf\(916 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

### Continuous control of avatar gesture

Francesca Barrientos

Pages: 5 - 8

 Full text available: [Pdf\(423 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

### Decompression: a living laboratory in cyberspace

Betty Beaumont

Pages: 9 - 12

 Full text available: [Pdf\(351 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [index terms](#)

### Intimacy and embodiment: implications for art and technology

Sidney Fels

Pages: 13 - 16

 Full text available: [Pdf\(632 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

### The merging of the arts with technology

Jean Gallagher

Pages: 17 - 20


 Full text available: [Pdf\(389 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

### Production and maintenance environments for interactive audio-visual stories

Frank Nack, Craig Lindley

Pages: 21 - 24


Full text available:  Pdf(392 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### **Gathering crowds: mapping the post-human social body**

Teri Rueb

Pages: 25 - 26


Full text available:  Pdf(141 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

### **Virtual Garden: a vision-based multimedia installation**

Andrew Senior

Pages: 27 - 30


Full text available:  Pdf(909 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

### **Zyklodeon: a software construction kit modeling cyclic timing patterns**

Carol Strohecker, A. H. Slaughter, M. A. Horvath, N. J. Appleton

Pages: 31 - 34

Full text available:  Pdf(319 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

### **Giving expression to multimedia performance**

Leonello Tarabella, Graziano Bertini

Pages: 35 - 38


Full text available:  Pdf(662 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

### **Integrating drawing tools with behavioral modeling in digital painting**

Elpida S. Tzafestas

Pages: 39 - 42


Full text available:  Pdf(460 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

### **JPEG2000: the new still picture compression standard**

C. A. Christopoulos, T. Ebrahimi, A. N. Skodras

Pages: 45 - 49

Full text available:  Pdf(791 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

### **Efficient use of local edge histogram descriptor**

Dong Kwon Park, Yoon Seok Jeon, Chee Sun Won

Pages: 51 - 54

Full text available:  Pdf(774 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

### **Fast motion estimation for real-time shape-adaptive MPEG-4 encoding**

Peter Kauff, Klaas Schüür

Pages: 55 - 58

Full text available:  Pdf(381 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

### **The ATSC data broadcast Standard**

Regis J. Crinon, Edwin A. Heredia

Pages: 59 - 62

Full text available:  Pdf(399 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

### **White paper on integrated broadband environment environment for personalized TV experience (IBEX)-preliminary edition**

Yoshihisa Gonno, Fumihiko Nishio, Tomohiro Tsunoda, Yasuaki Yamagishi

Pages: 63 - 66

Full text available:  Pdf(426 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

**On the evolution of videotext description scheme and its validation experiments for MPEG-7**

Chitra Dorai, Ruud Bolle, Nevenka Dimitrova, Lalitha Agnihotri, Gang Wei

Pages: 67 - 70

Full text available:  Pdf(625 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Extensible MPEG-4 textual format (XMT)**

Michelle Kim, Steve Wood, Lai-Tee Cheok

Pages: 71 - 74

Full text available:  Pdf(365 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

**Video transcoding for universal multimedia access**

Niklas Björk, Charilaos Christopoulos

Pages: 75 - 79

Full text available:  Pdf(401 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Spoken content metadata and MPEG-7**

J. P. A. Charlesworth, P. N. Garner

Pages: 81 - 84

Full text available:  Pdf(474 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Architecture for varying multimedia formats**

Gal Ashour, Arnon Amir, Dulce Ponceleon, Savitha Srinivasan

Pages: 85 - 88

Full text available:  Pdf(440 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**TV anytime as an application scenario for MPEG-7**

Silvia Pfeiffer, Uma Srinivasan

Pages: 89 - 92

Full text available:  Pdf(318 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Representing internet streaming media metadata using MPEG-7 multimedia description schemes**

Eric Rehm

Pages: 93 - 98

Full text available:  Pdf(604 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Standards, interoperability and practice: who needs standards anyway? (Panel Session)**

Ana B. Benitez, Dick Bulterman, Bradley Horowitz, Alexandros Eleftheriadis, Gandhi Vaithilingam

Pages: 99 - 103

Additional Information: [full citation](#), [index terms](#)

**H204M — watermarking for media: classification, quality evaluation, design improvements**

Jana Dittmann, Martin Steinebach, Thomas Kunkelmann, Ludwig Stoffels

Pages: 107 - 110

Full text available:  Pdf(430 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

**Digital certificates: a survey of revocation methods**


Petra Wohlmacher

Pages: 111 - 114

Full text available:  Pdf(455 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)**Structural digital signature for image authentication: an incidental distortion resistant scheme**


Chun-Shien Lu, Hong-Yuan Mark Liao

Pages: 115 - 118

Full text available:  Pdf(685 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)**Audio watermarking for monitoring and copy protection**


Jaap Haitsma, Michiel van der Veen, Ton Kalker, Fons Bruekers

Pages: 119 - 122

Full text available:  Pdf(313 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)**A distributed detection framework for Steganalysis**

R. Chandramouli, Nasir D. Memon

Pages: 123 - 126

Full text available:  Pdf(398 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Secure data hiding in wavelet compressed fingerprint images**

Nalini K. Ratha, Jonathan H. Connell, Ruud M. Bolle

Pages: 127 - 130

Full text available:  Pdf(688 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)**Secure high data embedding rate for steganographic application**


Faisal Alturki, Russell Mersereau

Pages: 131 - 134

Full text available:  Pdf(632 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Watermarking at point of origin**


Andrew Z. Tirkel, Tom E. Hall

Pages: 135 - 138

Full text available:  Pdf(484 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Multimedia content protection by cryptography and watermarking in tamper-resistant hardware**

Feng Bao

Pages: 139 - 142

Full text available:  Pdf(387 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Digital document integrity**

Graham Shaw

Pages: 143 - 144

Full text available:  Pdf(195 KB)Additional Information: [full citation](#), [abstract](#), [index terms](#)**Coimbra: secure Web access to multimedia content**

Edgar Weippl

Pages: 145 - 148

Full text available:  Pdf(577 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Associating network flows with user and application information**

Ralf Ackermann, Utz Roedig, Michael Zink, Carsten Griwodz, Ralf Steinmetz

Pages: 149 - 152


Full text available:  Pdf(383 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Securing RSVP for multimedia applications**

Vanish Talwar, Klara Nahrstedt

Pages: 153 - 156


Full text available:  Pdf(419 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Can P3P help to protect privacy worldwide?**

Rüdiger Grimm, Alexander Rossmagel

Pages: 157 - 160

Full text available:  Pdf(428 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

**How to bypass the Wassenaar arrangement: a new application for watermarking**

Franck Leprévost, Raphaël Erard, Touradj Ebrahimi

Pages: 161 - 164

Full text available:  Pdf(419 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Using Hilbert curve in image storing and retrieving**

Zhexuan Song, Nick Roussopoulos

Pages: 167 - 170


Full text available:  Pdf(355 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**On "shapes" of colors for content-based image retrieval**

Renato O. Stehling, Mario A. Nascimento, Alexandre X. Falcão

Pages: 171 - 174

Full text available:  Pdf(462 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

**Learning image similarities and categories from content analysis and relevance feedback**

Zijun Yang, C. -C. Jay Kuo

Pages: 175 - 178


Full text available:  Pdf(453 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Advanced feature extraction for Keyblock-based image retrieval**

Lei Zhu, Aibing Rao, Aidong Zhang

Pages: 179 - 183


Full text available:  Pdf(735 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

**Omni-face detection for video/image content description**

Gang Wei, Ishwar K. Sethi

Pages: 185 - 189


Full text available:  Pdf(1.33 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

**Video summarisation based on the psychological content in the track structure**

Tsuyoshi Moriyama, Masao Sakauchi

Pages: 191 - 194

Full text available:  Pdf(972 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

**Scene identification in news video by character region segmentation**

Ichiro Ide, Reiko Hamada, Shuichi Sakai, Hidehiko Tanaka

Pages: 195 - 200


Full text available:  [Pdf\(585 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

**Detection of text captions in compressed domain video**

Yi Zhang, Tat-Seng Chua

Pages: 201 - 204


Full text available:  [Pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Linking live and replay scenes in broadcasted sports video**

Noboru Babaguchi, Yoshihiko Kawai, Yukinobu Yasugi, Tadahiro Kitahashi

Pages: 205 - 208

Full text available:  [Pdf\(509 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

**Spatio-temporal representation and retrieval using moving object's trajectories**

Choon-Bo Shim, Jae-Woo Chang

Pages: 209 - 212


Full text available:  [Pdf\(384 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Rule-based video classification system for basketball video indexing**

Wensheng Zhou, Asha Vellaikal, C. C. Jay Kuo

Pages: 213 - 216


Full text available:  [Pdf\(675 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

**Key-frame extraction and shot retrieval using nearest feature line (NFL)**

Li Zhao, Wei Qi, Stan Z. Li, Shi-Qiang Yang, H. J. Zhang

Pages: 217 - 220


Full text available:  [Pdf\(902 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

**Organization and retrieval of continuous media**

Yasuo Ariki

Pages: 221 - 226


Full text available:  [Pdf\(659 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Effective access to large audiovisual assets based on user preferences**

S. Ioannou, G. Moschovitis, K. Ntalianis, K. Karpouzis, S. Kollias

Pages: 227 - 232

Full text available:  [Pdf\(1.01 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Document image retrieval without OCRing using a video scanning system**

Ercan E. Kuruoglu, Vern T. Tan

Pages: 233 - 236


Full text available:  [Pdf\(628 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Associating cooking video with related textbook**

Reiko Hamada, Ichiro Ide, Shuichi Sakai

Pages: 237 - 241


Full text available:  [Pdf\(1.03 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Similarity-based retrieval of temporal documents**

Prakash Yamuna, K. Selçuk Candan

Pages: 243 - 246

Full text available:  [Pdf\(570 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2006 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)